

PATENT COOPERATION TREAMY



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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

Anslation P.	ATENT COOPERA		Y	PCT/EP2003/00:
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MIERNAII			ATTON RE	IORI
Applicant's or agent's file reference	(PCT Article 36 a		cation of T	ransmittal of International
P 2796/PCT B/S	FOR FURTHER ACTIO	Preliminary	Examination R	Report (Form PCT/IPEA/416)
International application No. PCT/EP2003/005100	International filing date (da 15 May 2003 (15.		_	(day/month/year) ly 2002 (03.07.2002)
International Patent Classification (IPC) or no F16H 57/02				
Applicant	WITTENSTEI	1 AG		
This international preliminary exam and is transmitted to the applicant acts.	ination report has been prepared	ed by this Inter	national Prelim	ninary Examining Authority
2. This REPORT consists of a total of	6 sheets, incl	ding this cover	sheet.	
This report is also accompan amended and are the basis fo 70.16 and Section 607 of the	r this report and/or sheets co	taining rectific	ion, claims and ations made be	Vor drawings which have been efore this Authority (see Rule
These annexes consist of a to	otal of6 sheet	. .		
3. This report contains indications rela	ating to the following items:	,		
I Basis of the report				
II Priority				
<u> </u>	of opinion with regard to no	elty, inventive s	step and industr	rial applicability
IV Lack of unity of inv			· · · · · · · · · · · · · · · · · · ·	
V Reasoned statemen citations and explan	t under Article 35(2) with re nations supporting such state	ard to novelty, i	inventive step o	or industrial applicationity;
VI Certain documents	cited			
· VII Certain defects in t	he international application			
VIII Certain observation	ns on the international applic	tion		
Date of submission of the demand	D	te of completion	of this report	
02 February 2004 (02.0)2.2004)	181	November 20	004 (18.11.2004)
Name and mailing address of the IPEA/EP	A	thorized officer	-	
Facsimile No.	T	lephone No.		



emational application No.

PCT/EP2003/005100

	s of the r	<u> </u>						
1. Wit	h regard t	the elements of the international application:*						
		mational application as originally filed						
	the des	cription:						
	pages		, as originally filed					
1	pages		, filed with the demand					
	pages	2, 2a , filed with the letter of	27 October 2004 (27.10.2004)					
	the clai	ms:						
-	pages							
ł	pages	, as amended (toget	, as originally filed					
	pages	, as amonded (together)						
	pages	1-14 , filed with the letter of	, filed with the demand					
	the dra		111100011001 2004 (11.11.2004)					
ا ا	pages	440.747						
	pages	1/5-5/5	, as originally filed					
ĺ	pages		, filed with the demand					
	41	, filed with the letter of						
		nce listing part of the description:						
Ì	pages		, as originally filed					
	pages		filed with the demand					
	pages	, filed with the letter of						
The	2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language which is: the language of a translation furnished for the purposes of international search (under Rule 23.1(b)). the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/ or 55.3).							
3. With preli	•	to any nucleotide and/or amino acid sequence disclosed in the internamination was carried out on the basis of the sequence listing: ed in the international application in written form.	ational application, the international					
filed together with the international application in computer readable form.								
	furnishe	rd subsequently to this Authority in written form.						
	furnishe	d subsequently to this Authority in computer readable form.						
	The sta	tement that the subsequently furnished written common listing to						
		tement that the subsequently furnished written sequence listing does no contain the containing does not contain the containing						
	The sta	tement that the information recorded in computer readable form is identical nished.	al to the written sequence listing has					
4.	The am	endments have resulted in the cancellation of:						
		ne description, pages						
		ne claims, Nos.						
		ne drawings, sheets/fig						
5.	This repo	ort has been established as if (some of) the amendments had not been made, some disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	since they have been considered to go					
	cement si	neets which have been furnished to the receiving Office in response to an invit as "originally filed" and are not annexed to this report since they do n	ation under Article 14 are referred to not contain amendments (Rule 70.16					
** Any r	eplaceme	at sheet containing such amendments must be referred to under item 1 and ann	exed to this report.					

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V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

Statement			
Novelty (N)	Claims	1-14	YES
	Claims		NO
Inventive step (IS)	Claims	5, 10-14	YES
,	Claims	1-4, 6-9	NO
Industrial applicability (IA)	Claims	1-14	YES
	Claims		NO

2. Citations and explanations

Prior art cited in the search report:

- D1: PATENT ABSTRACTS OF JAPAN Vol. 2000, No. 07, 29

 September 2000 & JP 2000 110895 A (SUMITOMO HEAVY IND

 LTD), 18 April 2000
- D2: EP-A-0 957 291 (HARMONIC DRIVE SYSTEMS) 17 November 1999
- D3: PATENT ABSTRACTS OF JAPAN Vol. 018, No. 628 (M-1713), 30 November 1994 &JP 06 241284 A (SUMITOMO HEAVY IND LTD), 30 August 1994
- D4: DE 26 49 949 A (SIEBENHAAR GETRIEBE) 3 November 1977
- 1. New independent claims 1 and 2 Lack of clarity

The subject matter of the newly submitted claims 1 and 2 does not satisfy the requirements of PCT Article 6 because it is not clear. The characterizing parts of the claims contain inter alia the features

- a) different assemblies of one unit with another unit
- b) the same gear can be assembled with SP kinematics or TP kinematics to produce a gear with variably selectable transmission ratios.

Expressions a) and b) in claim 1 are vague and unclear and leave the reader uncertain as to the meaning of the technical features in question. As a result, the subject matter of said claim is not clearly defined (PCT Article 6).

2. Independent claim 1

As the applicant mentions in the letter of 5 July 2004, document **D4** is considered the prior art closest to the subject matter of claim 1. It discloses, in accordance with the features of claim 1 as they are understood by this authority:

a system for producing gears consisting of different subassemblies, wherein

the same gear can be put together with SP kinematics or TP kinematics through different assemblies of unit (3) with units (2) and (1) to produce a gear with variably selectable transmission ratios.

The subject matter of claim 1 differs therefrom merely by the following features:

- the internal gear (20) of the power train (Han) being attached to the universal planet carrier (9) of the hollow shaft wheel (Hab) in a rotationally rigid manner, in particular screwed on, in order to make the gear into a two-stage TP gear.

The problem to be solved by the present invention can thus be seen as that of creating a system that can be employed universally.

However, the above features have already been used for the same purpose in a similar system (cf. document D2, figure 1).

If a person skilled in the art wished to achieve the same aim, he could easily apply these features to like effect to a system according to document D4. In this way he would arrive at a universally employable system as per claim 1 without thereby exercising inventive skill.

Therefore, the subject matter of claim 1 does not involve an inventive step (PCT Article 33(3)).

3. Independent claim 2

As the applicant mentions in the letter of 5 July 2004, document **D4** is considered the prior art closest to the subject matter of claim 1. It discloses, in accordance with the features of claim 1 as they are understood by this authority:

a system for producing gears consisting of different subassemblies, wherein

the same gear can be put together with SP kinematics or TP kinematics through different assemblies of unit (3) with units (2) and (1) to produce a gear with variably selectable transmission ratios.

The subject matter of claim 2 differs therefrom merely by the following features:

- the internal gear (20) of the power train (Han) being rigidly attached to, in particular screwed onto, the housing (3) of the attachment part (A2), in order to make the gear into a two-stage SP gear.

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The problem to be solved by the present invention can thus be seen as that of creating a system that can be employed universally.

However, the above features have already been used for the same purpose in a similar system (cf. document D1, figure 1).

If a person skilled in the art wished to achieve the same aim, he could easily apply these features to like effect to a system according to document D4. In this way he would arrive at a universally employable system as per claim 2 without thereby exercising inventive skill.

Therefore, the subject matter of claim 2 does not involve an inventive step (PCT Article 33(3)).

4. Claims 3-14, dependent upon claim 1

The subject matter of dependent claims 3-14 relates to further embodiments of the invention according to claim 1 and these claims likewise fail to satisfy the PCT requirements, since the claim upon which they are dependent must also satisfy said requirements. Moreover, features of the claims listed below appear to be known per se from the documents indicated. They therefore do not contain any essential features that could in any way substantiate an inventive step:

- claims 3, 4 and 6-8: document D1
- claim 9: document D2.